two axle rods each having an end secured to the first axle cap, the axle rods extending in the first pivot portion of the first casing and the second pivot portion of the second casing, respectively; and

a second axle cap connected to ends of the two axle rods distant from the first axle cap.

2. The handheld electronic device of claim **1**, wherein the first casing is moved from a closed position of device in which the first casing abuts against the second casing to a position perpendicular to the second casing when one of the axle rods rotates 45° relative to the other one of the axle rods.

3. The handheld electronic device of claim **1**, wherein the hinge structure further comprises two axle bushings fixed in the first pivot portion of first casing and the second pivot portion of the second casing, respectively, the two axle rods extending in the respective axle bushings.

4. A handheld electronic device, comprising:

a first casing having a first pivot portion;

a second casing having a second pivot portion, the first and second pivot portions each having teeth that mesh with each other;

a keyboard disposed on the first casing;

a monitor disposed on the second casing; and

a hinge structure to which the first and second pivot portions are hinged at a first hinged point and a hinged second point, respectively, wherein the keyboard moves from a position above the monitor to a position below the monitor after the first hinged point rotates an angle of 180° relative to the second hinged point, wherein

the hinge structure comprises:

a first axle cap;

two axle rods extending in the first pivot portion and the second pivot portion, respectively, the axle rods each having an end secured to the first axle cap; and

a second axle cap securely connecting with ends of the two axle rods distant from the first axle cap.

5. The handheld electronic device of claim **4**, wherein the monitor is a touch screen.

6. A handheld electronic device, comprising:

a first casing having a first pivot portion;

a second casing having a second pivot portion;

a hinge structure to which the first pivot portion of the first casing and the second pivot portion of the second casing are hinged in a manner that the first casing can rotate up to 360 degrees relative to the second casing and move from a first position abutting against a top surface of the second casing to a second position abutting against a bottom surface of the second casing; and

means for ensuring a path of movement of the first casing during its rotation relative to the second casing to be predetermined wherein

the hinge structure comprises:

a first axle cap having two axle rods extending in the first pivot portion of the first casing and the second pivot portion of the second casing, respectively; and

a second axle cap that connects with ends of the two axle rods distant from the first axle cap.

7. The handheld electronic device of claim **6**, wherein the means comprises a first set of protruding teeth formed on the first pivot portion and a second set of protruding teeth formed on the second pivot portion, the teeth meshing each other.

8. The handheld electronic device of claim **6**, wherein the second casing is provided with a touch screen thereon.

9. The handheld electronic device of claim **8**, wherein the first casing has a thickness equal to that of the second casing.

10. The handheld electronic device of claim **6**, wherein the first casing is provided with a touch screen thereon.

11. The handheld electronic device of claim **6**, wherein the first casing has a thickness smaller than that of the second casing.

12. The handheld electronic device of claim **6**, wherein the first casing has a thickness equal to that of the second casing.

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